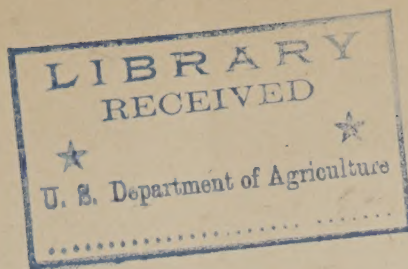


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U. S. DEPARTMENT OF AGRICULTURE

NUMBER 3.

JUNE, 1914.

USE OF TRANSPORTATION REQUESTS.

GOVERNMENT REQUESTS FOR TRANSPORTATION FOR THIS FISCAL YEAR POSITIVELY MUST NOT BE USED AFTER JUNE 30, 1914. ALL UNUSED REQUESTS IN THE HANDS OF EMPLOYEES AT THAT DATE SHOULD BE PROMPTLY RETURNED FOR CANCELLATION. A SUPPLY OF TRANSPORTATION REQUESTS FOR USE DURING THE FISCAL YEAR 1915 WILL BE FORWARDED WITH THE LETTERS OF AUTHORITY ISSUED ON JULY 1, 1914.

LIBRARY

In accordance with recommendations on page 3, paragraph 3 of Memorandum No. 62, Office of the Secretary of Agriculture, issued January 16, 1914, the librarian requests that field men send in as soon as possible to the "Library, Bureau of Entomology" lists of all books or pamphlets in their charge purchased for field use by the Bureau, that the annual inventory of such may be taken. Author, title date, number of edition and number of copy should be given; e. g. Bourcart, E. Insecticides and fungicides. 1913. copy 2.

Members of the Bureau are also asked to cooperate in suggesting to the librarian books necessary to their work or desirable for the library to have to round out its reference collections in both economic and systematic entomology; notes on editions of especial interest to entomologists are in order, books of general natural history which ought to be available, etc. Titles will be looked up to see if the books are already in the library and a "desiderata" list of purchases will be compiled.

New Books.

Berlese, A. Gli Insetti. vol. 2, fasc. 7-8, Milan, 1914.

Froggatt, W. W. The sheep maggot-fly pest in Australia, an essay by W. W. Froggatt with notes and observations by W. F. Cooper. The Cooper Laboratory for Economic Research, Watford, England, 1914. 88p. This contains a general summary of the scientific work on the sheep maggot-fly as applied to the Australian problem, Mr. Froggatt's essay, a summary of remedies and odd notes and details.

Loew, Hermann. Die europäischen bohrfliegen (Trypetidae). Wien, 1862; facsimile edition by W. Junk, Berlin, 1913.

BEE CULTURE.

E. F. Phillips, in charge.

Dr. N. E. McIndoo went to Winchester, Va., to cooperate with Mr. E. B. Blakeslee of the Office of Deciduous Fruit Insect Investigations

in a study of the effects on honey bees of spraying fruit trees while in full bloom. To obtain further data he will go to Winthrop, Me., to the branch laboratory under the direction of Mr. F. L. Simanton about June 1.

Dr. G. F. White who spent the winter at Ithaca, N. Y., has returned to Washington.

Mr. Geo. S. Demuth will close up the work on the wintering of bees in Philadelphia about the end of May.

DECIDUOUS FRUIT INSECT INVESTIGATIONS.

A. L. Quaintance, in charge.

In response to a demand from grape growers in the Lake Erie Valley, a laboratory has been re-established at North East, Pa., where further investigations of grape insects and other deciduous fruit insects in general will be made. Especial attention will be given to the grape berry moth, which still continues to be a grape pest of first importance in that general region. Mr. Dwight Isely, of Cornell University, has been employed to look after the general biologic and field work, and Mr. R. A. Cushman has been transferred from the Vienna, Va. laboratory to North East, Pa., and will have charge of the investigation of parasites of the grape berry moth, to which it is proposed to give more attention than has been possible heretofore. Mr. Cushman will also make a study of the apple-seed Chalcis, which, in recent years, has been the cause of considerable complaint from apple growers.

Mr. F. L. Simanton has been placed in charge of the laboratory at Winthrop, Me., to continue especially the codling moth-investigations there undertaken last year by Mr. E. H. Siegler.

Mr. E. W. Geyer, of the New Mexico Agricultural College, has been employed to continue the codling-moth investigations under way during the past two seasons in the Pecos Valley in New Mexico, and which were interrupted by the untimely death of Mr. A. G. Hammar.

Mr. E. J. Newcomer, of Leland Stanford University, has been employed and assigned to work on deciduous fruit insects in the Wenatchee Valley, Washington. In cooperation with Mr. D. F. Fisher, representing the Bureau of Plant Industry, of this Department, a special investigation is being made of Stigmonose of the apple.

TRUCK CROP AND STORED PRODUCT INSECT INVESTIGATIONS

F. H. Chittenden, in Charge.

Mr. M. M. High, Entomological Assistant, who has been working on truck-crop and stored-product insect investigations, especially on onion pests, at Brownsville, Tex., will resume his midsummer headquarters at Knox, Ind., where he will continue on the same class of insects under different climatic and soil conditions.

Mr. John W. Bailey, a student of the Mississippi Agricultural College, who has been appointed temporary field assistant, will be in charge of work at Brownsville, Tex., in the absence of Mr. High.

Mr. Boyd L. Boyden, Scientific Assistant, who was formerly employed at Whittier, Cal., where he was associated with Messrs. R. S. Woglum and John E. Graf, recently cooperating with the latter in work on wireworms affecting sugar-beet and other crops, will take headquarters at Oxnard, Cal., to continue investigations on sugar-beet and bean insects.

Mr. F. M. Wadley, a student of the Kansas State Agricultural College, is assigned as temporary field assistant to cooperate with Mr. F. B. Milliken at Garden City, Kans., in work on truck-crop insects, especially on insects injurious to sugar-beets.

HINTS ON MOUNTING COLEOPTERA.

Assistants stationed in the field send from time to time injurious Coleoptera which are very badly mounted. The general rule is to pin everything above $\frac{1}{4}$ inch in length, especially stout beetles. More slender beetles, such as Elateridae, measuring this length will be preserved better by mounting on card points. Cardboard points are preferably used for all Coccinellidae with the exception of about two species - *Anatis ocellata* and *Epilachna borealis*. The same is true of the Halticini, practically all of which should be mounted on card points with the exception of one species, *Blepharida rhois*. In other Chrysomelidae the same rule should be followed. The Carabidae or ground-beetles should be mounted on points if less than $\frac{3}{8}$ inch in length. Fine pins should be used, but not the smallest. In mounting on cards it is preferable to have the head a little higher than the rest of the body, rather than the reverse.

SOUTHERN FIELD CROP INSECT INVESTIGATIONS.

W. D. Hunter, in charge.

Mr. R. H. Hutchison has returned to Washington from New Orleans. He will be engaged on experiments with the house fly during the season. Mr. A. W. J. Pomeroy will be associated with him in this investigation.

T. E. Holloway will be furloughed at his own request to allow him to spend several months in Europe during the summer. He will visit Italy, France and Germany. G. N. Walcott of the Porto Rico Board of Agriculture will accompany Mr. Holloway.

On May 15 a hearing was held at the Department to discuss the feasibility of the elimination of the danger of introduction of the pink boll worm in cotton seed in bales of lint. This meeting was attended by many members of Congress and representatives of cotton mills. The Horticultural Board has not reached a decision.

Letters received recently from W. F. Fiske show rapid progress in the study of the bionomics of the tsetse flies. He has spent five months in making examinations on the shores of Lake Victoria-Nyanza, and on islands in the Lake.

Robert Vietch, formerly with Guy Marshall in London, spent a few days in Washington during the month on his way to the Fiji Islands where he will engage in the study of sugar cane insects for a planting company. On the way across the country he will make a number of stops to study the field stations of the Bureau.

Mr. Mason, a Carnegie scholar, has been in this country for about a year, recently having studied at Cornell University, has been appointed Government entomologist in Nyasaland. He spent some days in Washington during the month preparatory to leaving for his new post.

M. E. MacGregor, another Carnegie scholar, has been engaged as a collaborator in the investigation of the possible insect transmission of pellagra. He will be associated with Mr. A. H. Jennings at Spartanburg for several months.

TROPICAL AND SUBTROPICAL FRUIT INSECT INVESTIGATIONS.

C. L. MARLATT, in charge.

Mr. J. R. Horton, during the past month, visited Mobile, Alabama, to investigate the Argentine ant in its relation to citrus trees in that region.

Owing to injury to citrus trees in California by the citrus mealy bug and allied species it is proposed to establish a field station to investigate these pests and devise means of controlling them. This work will be in charge of Mr. R. S. Woglum, and when he has found a suitable location for the new station the one at Whittier will be discontinued.

